

READ THIS FIRST!

Installing and Getting Started

with Your Number Nine Graphics Accelerator

Your kit should contain these items:

- This *Installing and Getting Started* card
- Antistatic bag containing your graphics accelerator card
- A *Reference Guide* for your graphics accelerator model
- CD-ROM or diskettes, containing software drivers, the HawkEye utility for Windows users, and online documentation
- Warranty and Registration Card
- A Diskette Request Postcard
- Ferrite cores (for graphics accelerators capable of screen resolutions of 1600 x 1200 or greater)

If anything is missing or damaged, contact your dealer.

Plan on approximately one-half hour to install both the hardware and the software.

Required Skills and Tools

These instructions assume that you recognize and are familiar with the basic parts of your computer, including the monitor, system unit, motherboard, power switches, and cables. It's really easy!

You'll need a screwdriver to complete installation.



NUMBER NINE
VISUAL TECHNOLOGY

Part Number: LTP128S2X1

Step 1: Set System Settings to VGA.

Windows 95 users: Skip this step. Go to step 2.

Windows 3.1 users: To ensure you're set up to use VGA, use the Windows Setup program.

Other users: To ensure you're set up to use VGA, follow the instructions for your operating system.

Step 2: Disconnect Power and Peripherals, and Remove Cover.

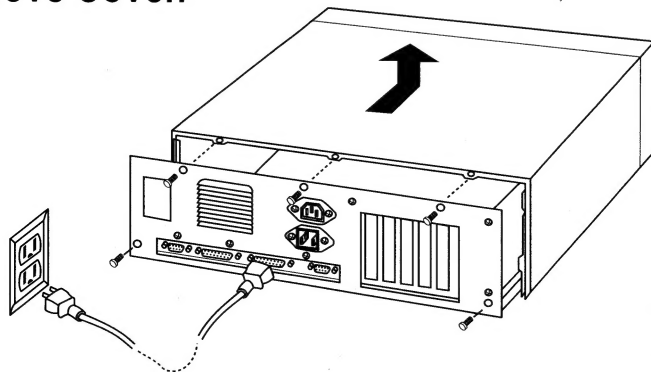
1. Turn your computer OFF and unplug the power cord from the electrical outlet.

WARNING: High voltage can harm you or damage your equipment.
Be sure to disconnect electrical power before proceeding.

2. Note where the monitor cable is connected to the system unit box.
Disconnect peripherals from the system unit box
such as the monitor, printer, or mouse.

Tip: Before disconnecting peripherals, you may want to label ports
to help you correctly identify where to reconnect them later. (You'll
be connecting the monitor cable to the new graphics card you install.)

3. Remove the system unit cover.



Step 3: Disable Existing Graphics Accelerator and Prepare the Motherboard.

- If there is a graphics card already in the system unit, remove the expansion slot screw and remove the graphics card. (The location of the expansion slot screw is identified in the illustration on the next panel.)

Tip: In Step 2, you disconnected the monitor cable from a graphics card or the motherboard.

- If there is no graphics card, your motherboard may have built-in VGA capability. Disable the VGA capability. (Your new Number Nine card has VGA functionality.) For information about your motherboard and disabling its VGA capability, see your computer's documentation.

Did You Know?

A reference to the Beatles
is etched into every
Number Nine graphics
accelerator card.

Step 4: Prepare a Slot for Your New Card.

1. Select an expansion slot that perfectly fits the edge connector on your new Number Nine graphics accelerator card. (If you removed a graphics card in Step 3, you may be able to use the same expansion slot.)

If you're unsure which slot to use: Use a PCI expansion slot for a PCI-based card. Use a VLB slot for a VLB-based card. Check your computer's documentation to help you identify the type of expansion slot that matches the edge connector for your graphics accelerator card.

2. If you're using a previously unused expansion slot, remove the expansion slot cover.

Step 5: Prepare Your New Accelerator Card.

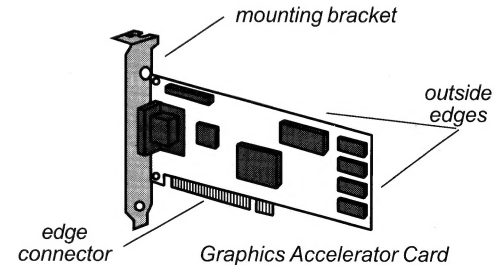
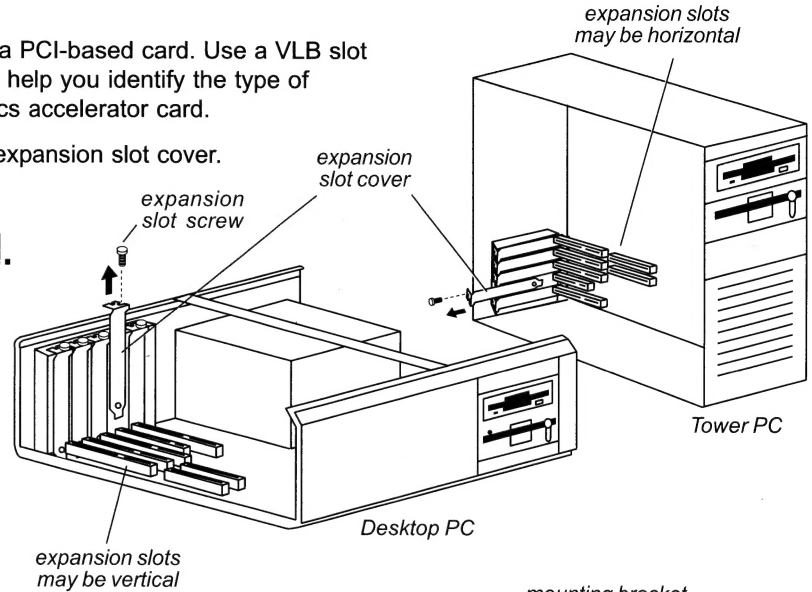
Handling Precautions

Static electricity can damage computer equipment. When you handle your graphics accelerator card or any components inside your system unit, it's important to discharge yourself of static electricity. To discharge yourself, touch the metal frame or power supply box in your system unit.

When handling your graphics accelerator card, your hands should touch only the mounting bracket and the three outside edges. Do not handle the edge connector.

If you need to set the card down, place it on top of the antistatic bag.

1. Discharge yourself of static electricity, then remove the graphics accelerator card from the antistatic bag.
2. Refer to the *Reference Guide* for your specific graphics accelerator to determine whether you need to set any hardware switches, such as jumpers.

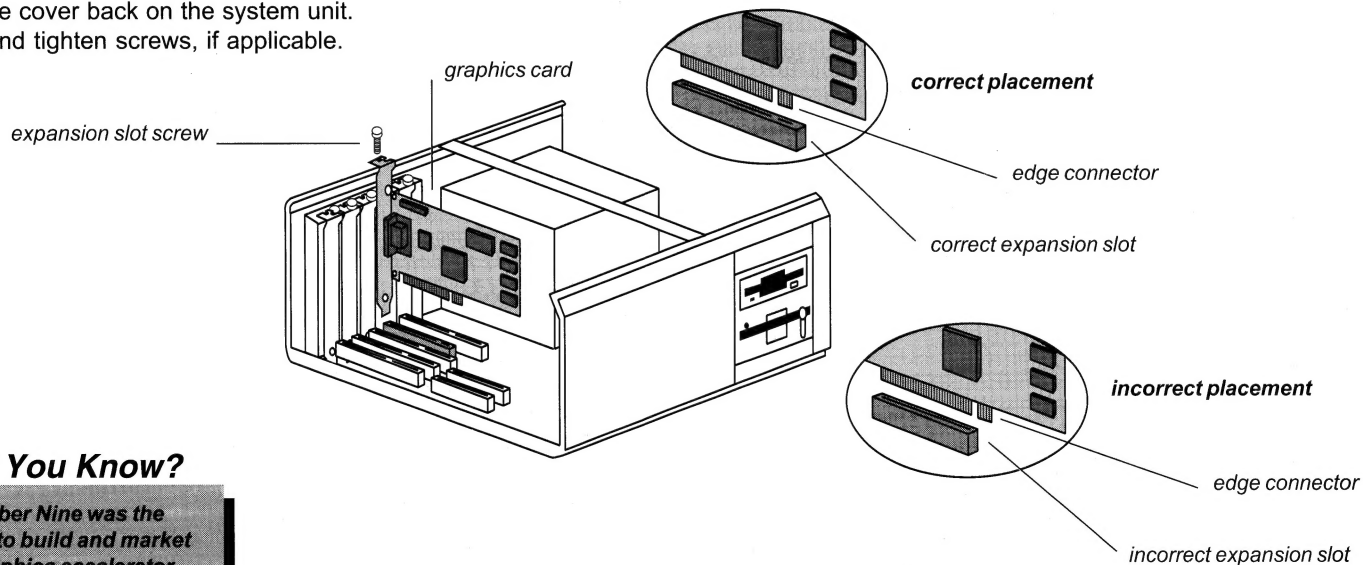


Step 6: Install Your New Graphics Accelerator Card.

1. Insert the new card in the expansion slot you prepared.

Align the edge connector and the mounting bracket edge in the expansion slot and push the card firmly into position. There should be a snug fit between the edge connector of your new card and the expansion slot.

2. Visually inspect the expansion card to ensure that it is fully inserted in the slot. The edge connector's gold fingers should be fully and evenly inserted.
3. Insert and tighten the expansion slot screw. (Keep the expansion slot cover in case you need it at a future time.)
4. Slide the cover back on the system unit. Insert and tighten screws, if applicable.



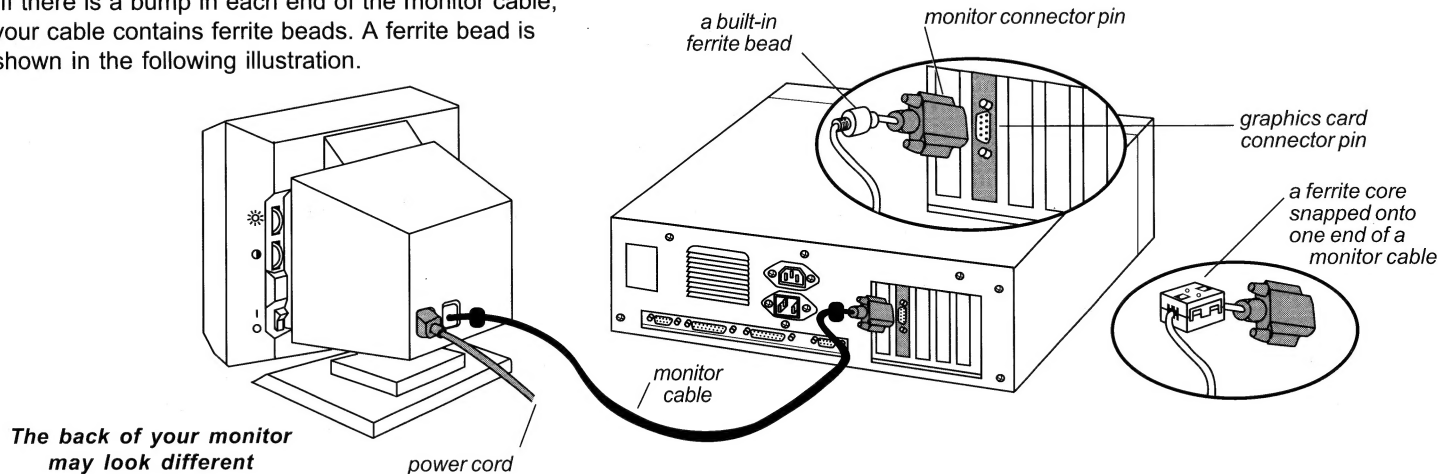
Did You Know?

Number Nine was the first to build and market a graphics accelerator for PCs.

Step 7: Reattach All Peripherals, Including the Monitor.

- Attach your monitor cable to the monitor connector on your new accelerator card.
- If your monitor cable does not have a built-in ferrite bead at each end and ferrite cores were included with your Number Nine graphics accelerator, install the ferrite cores to reduce interference with radio frequencies. To install a ferrite core, place it over the monitor cable and snap it together. Install one close to each end of the cable.

Tip: If there is a bump in each end of the monitor cable, your cable contains ferrite beads. A ferrite bead is shown in the following illustration.



Step 8: Plug in Your System Unit and Peripherals, and Start Your Computer.

If your computer:

- Boots up, go to Step 9. (The screen resolution may be different than your previous setting.)
- Does not respond when you turn it on, or if your screen is completely blank, refer to the Installation Troubleshooting section of this card.

Did You Know?

Higher resolutions mean sharper images and an expanded view of your desktop.

Step 9: Install Software Drivers and HawkEye

- For Windows 95 or Windows 3.1, install drivers and HawkEye as described on this card.
- For other operating systems, install the appropriate software drivers as described in your *Reference Guide*.

Installing Drivers and HawkEye for Windows 95:

First, install the software drivers for Windows 95:

1. Start Windows 95. When Windows 95 detects the new hardware and asks which drivers to use, choose the following and click OK:
Driver from disk provided by hardware manufacturer
2. Insert the Number Nine CD-ROM or diskette in the appropriate drive, then browse to the drive where it is located.
3. If you're installing from CD-ROM, open the folder for Windows 95. (If installing from diskette, it is not necessary to change directories.)
4. Select the software driver for your graphics accelerator card, and choose OK.
5. At the Install from Disk screen, choose OK.
6. When prompted, restart your computer to change system settings. (If installing from diskettes, remove the diskette from the drive before you restart the computer.)

Next, install HawkEye for Windows 95:

1. Select Run from the Start button. If installing from diskette, insert the Number Nine diskette in the drive.
2. Choose the Browse button and browse to the drive where the Number Nine CD-ROM or diskette is located.
3. If installing from CD-ROM, select the Windows 95 directory. If installing from diskette, it is not necessary to change directories.

4. Highlight SETUP.EXE, and choose Open.
5. In the Run box, choose OK. Follow the instructions on the Setup screens.
6. When asked if you want to restart your computer, choose Yes. Installation is complete!

Installing Drivers and HawkEye for Windows 3.1:

1. Start Windows 3.1 and insert the Number Nine CD-ROM or diskette in the appropriate CD-ROM or diskette drive.
2. From the File menu, select Run.
3. Choose the Browse button and browse to the drive where the Number Nine CD-ROM or diskette is located.
4. If your software is on CD-ROM, select the Windows 3.1 directory on the CD-ROM.
5. Highlight SETUP.EXE, and choose Open.
6. In the Run box, choose OK.
7. Follow the instructions on the HawkEye Setup screens. Setup automatically installs both the drivers for Windows 3.1 and HawkEye.
8. When asked if you want to reboot, choose Yes. Installation is complete!

Cool Stuff You Can Do With HawkEye

You can...

Get rid of screen flicker

Make screen images appear bigger and closer

View more of your spreadsheets, or see two side-by-side applications, by enlarging the view of your desktop area

Change the color and size of your cursor

Calibrate screen tones and colors to more closely match printer output or Pantone® strips

Quickly and easily call up valuable hardware and software data, like card configuration and memory statistics.

From this HawkEye Properties Sheet (or HawkEye Control Panel screen, if you use Windows 3.1)...

Monitor Adjustment

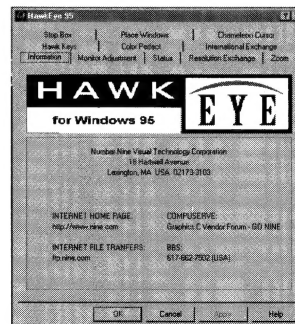
Resolution Exchange

Resolution Exchange
(or Virtual Resolution,
for Windows 3.1)

Chameleon Cursor

ColorPerfect

Status



Installation Troubleshooting

You don't have a CD-ROM drive to install the graphics accelerator software

Computer does not respond when you turn it on, or computer appears to boot up properly but there is no display

You hear a series of beeps, and there is no video display.

Mail or fax the Diskette Request postcard to Number Nine for your free diskettes (fax number 617 674-8657). Or download the software from Number Nine's Bulletin Board Service, our Internet site, or CompuServe. You can still use your computer until the software is installed; you just won't be able to fully enjoy the benefits of your new Number Nine graphics accelerator.

Check all cable and power connections.

Repeat steps 2-8, making sure the edge connector is firmly inserted in the expansion slot and that the edge connector is a perfect fit for the expansion slot. Check to see if any pins on cable connectors or the edge connector are bent.

Make sure you set all required hardware settings specified in your *Reference Guide*.

There may be a VGA chip or another graphics card already installed on your motherboard. Or the BIOS on your motherboard may not be current; contact your computer manufacturer for an upgrade. See your computer's documentation for more information.

Finding Information...

The very latest software drivers

Technical information specific to your graphics accelerator
Information about HawkEye

Troubleshooting information

Check...

Number Nine's Bulletin Board Service, our Internet site, or CompuServe (contact information is provided below). The latest Number Nine software drivers are available to you at no extra charge.

The *Reference Guide* for your Number Nine graphics accelerator.

HawkEye Online Help

Also check the viewable, printable booklet provided free on your CD-ROM, entitled *HawkEye User Guide*.

The Troubleshooting information on this card. Other sources of information include your Number Nine *Reference Guide*, the README.TXT file included on the CD-ROM, online help, and Number Nine's World Wide Web Home Page.

Contacting Number Nine

CompuServe Address

Bulletin Board System (BBS)

Dial:

Baud:

Compression:

Modem Setup:

World Wide Web Home Page

FTP Internet Site

U.S.A. Voicemail

U.S.A. Address

U.S.A. Fax Number

Germany Address

Germany Fax Number

Go Nine or Go Gravenc

USA

(617) 862-7502

Up to 28,800

HST, v.32 and v.42

8 data bits, 1 stop bit,
no parity

<http://www.nine.com>

<ftp.nine.com>

(617) 674-8595

Number Nine Visual Technology, 18 Hartwell Ave., Lexington, MA 02173, U.S.A.

(617) 674-2919

Number Nine Visual Technology GmbH, Inselkammerstr. 10,
82008 Unterhaching b. München, Germany

011-49-89-614-491-99

EUROPE

+ 49 89 614 491 66

up to 14,400

HST, v.32 and v.42

8 data bits, 1 stop bit,
no parity